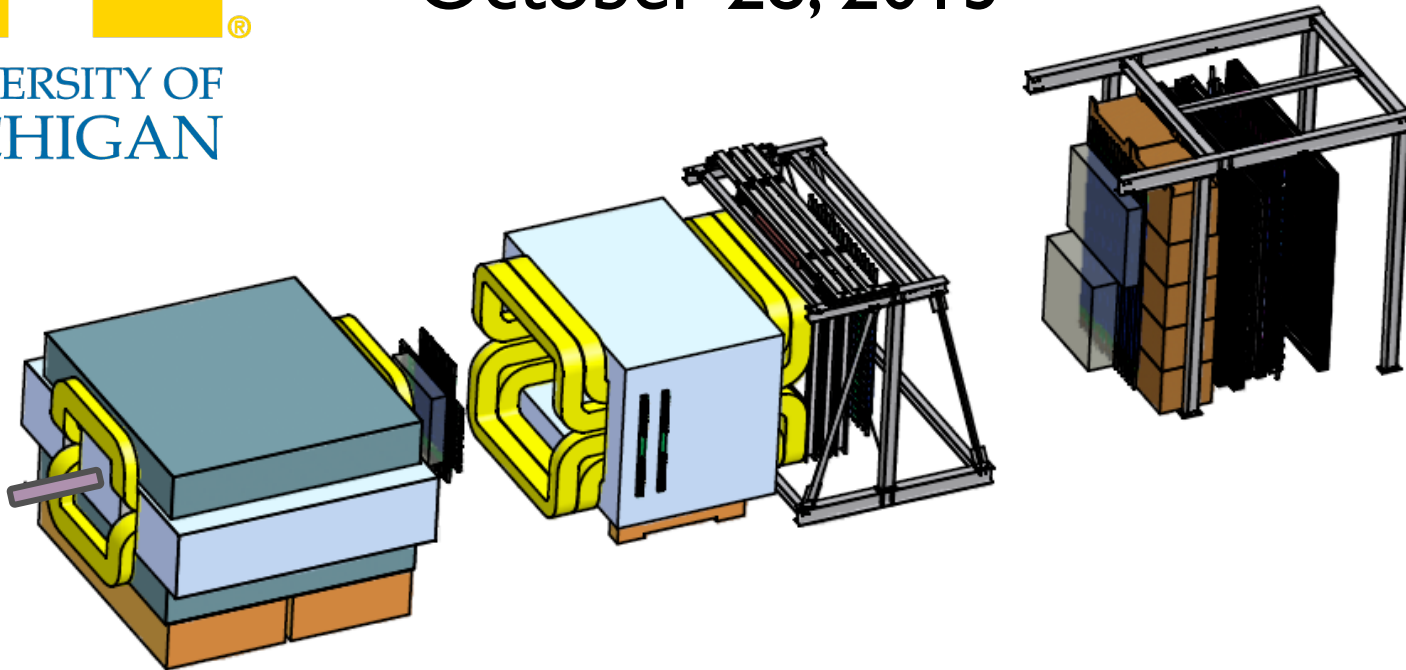


# SeaQuest AEM Report



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October 28, 2013



**Beamline:** Beam to SeaQuest as soon as Monday (11/4)

## **Magnets:**

- both focusing and spectrometer magnets tested successfully
- a small glitch with the spectrometer magnet interlock signal fixed easily



**Targets:** Solid carbon, iron, and tungsten targets were installed this week alongside tested cryotargets.

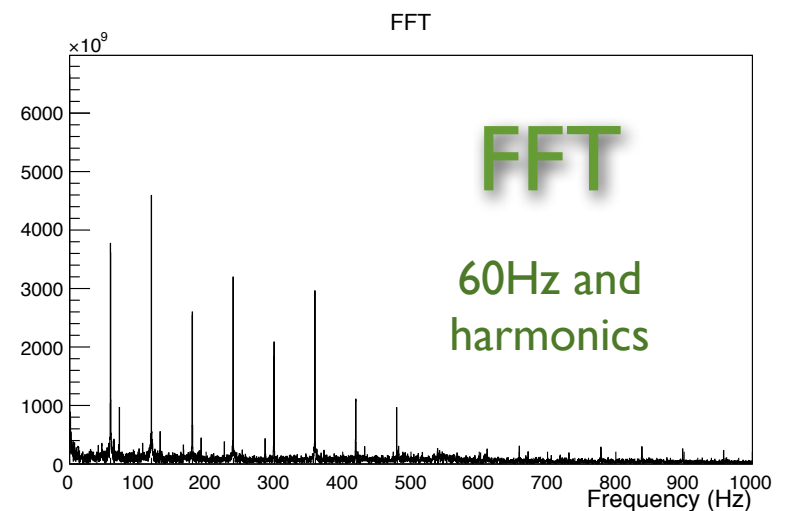
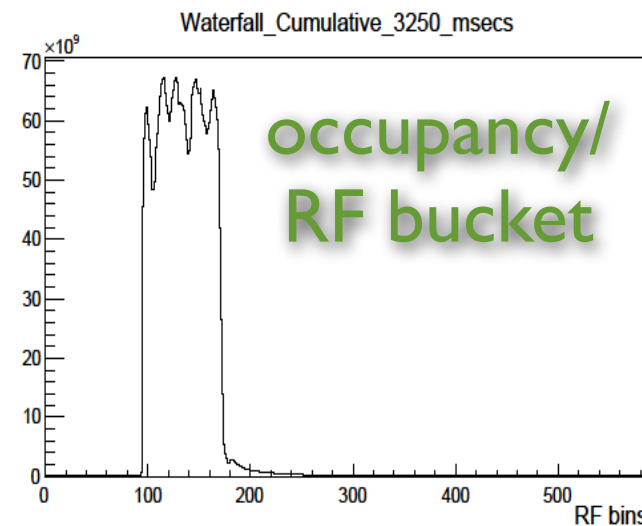
# Cherenkov Intensity Monitor

## (bucket-by-bucket intensity measurement)

- Most hardware and software complete and installed
- v.2 of QIE charge integrator/readout board ready today
  - ➔ stays locked to beam RF (vs. spill-by-spill)
  - ➔ improved communication bandwidth
  - ➔ 512MB local memory

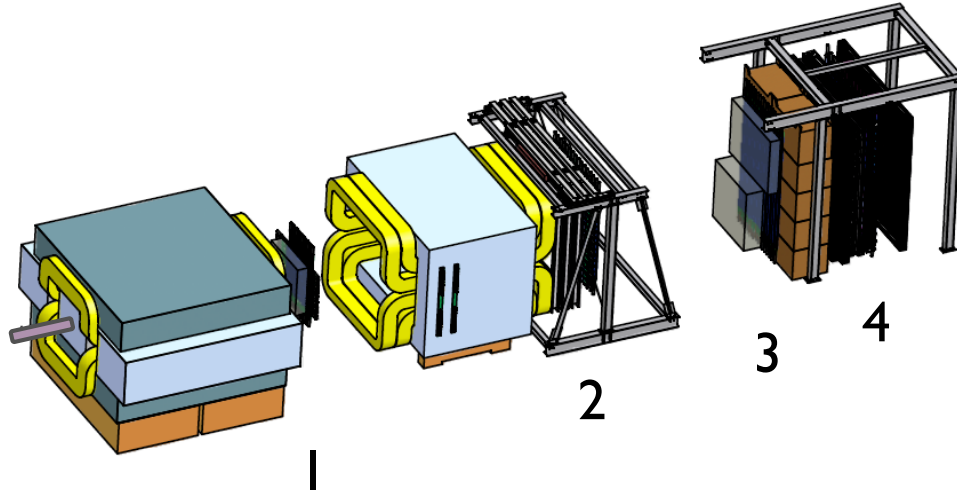


**similar setup installed at MTest with hodoscope using v.1 board**

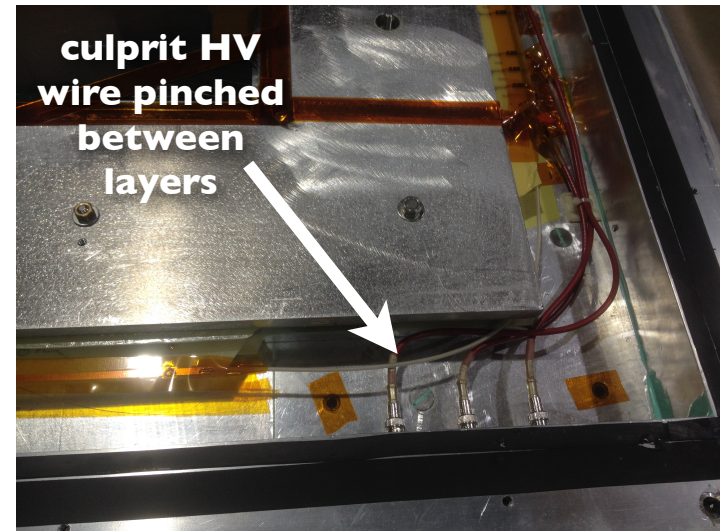




# Detectors



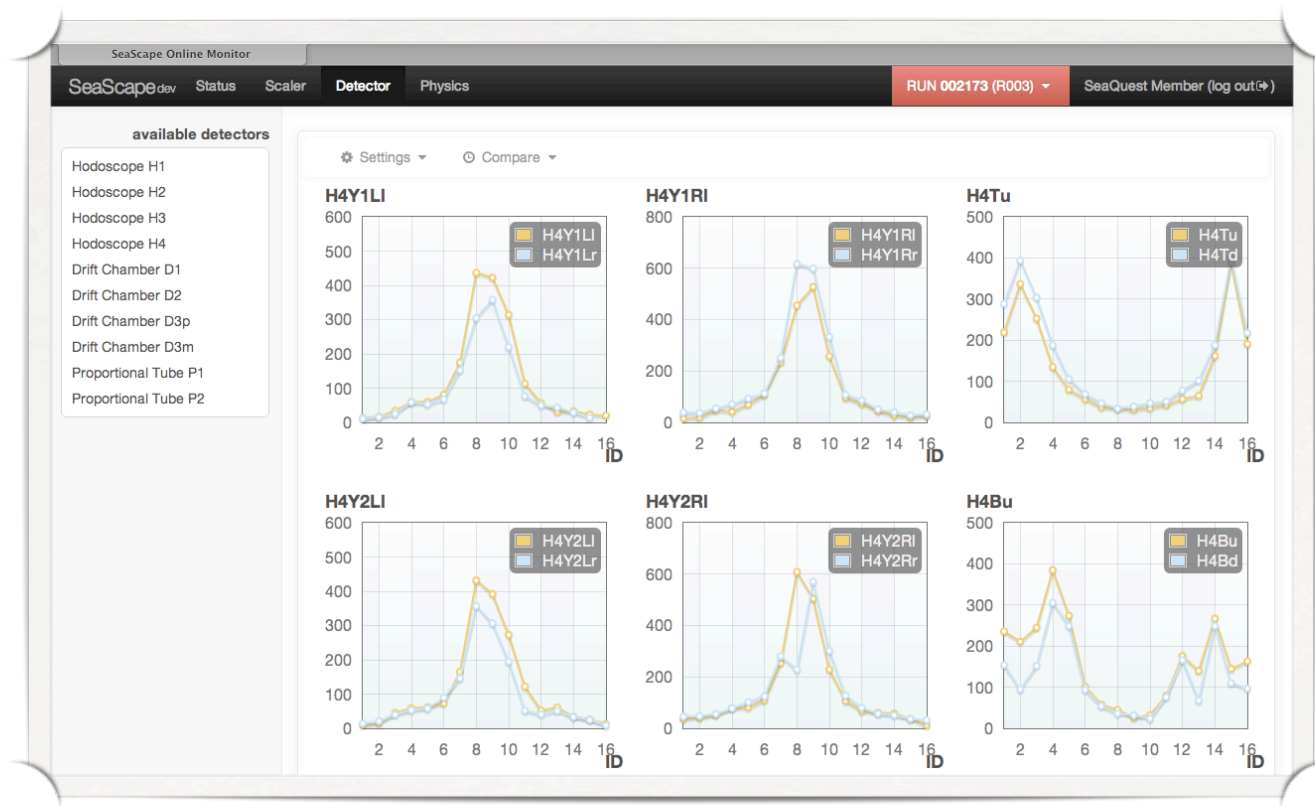
- ◆ All detectors in place and working
- ◆ Station 2U drift chamber was efficiently serviced on loading dock and HV dead-short was repaired... back in place and operating properly
- ◆ Various mapping checks and calibration underway





# computing

- ✦ updated decoder and online event reconstruction complete
- ✦ “SeaScape” web-based online monitoring being tested



- ✦ database server needs to be installed and configured in NM4
- ✦ full online data pipeline needs to be configured

# Conclusions

- Official safety walkthrough this afternoon
- Critical to-do before beam
  - ➔ software configuration
  - ➔ hodoscope survey
  - ➔ short NM3 access to adjust target positions and install beamline Cherenkov PMT
- All other ongoing calibrations and tests are easier with beam